BVA 8051/8052/8053 Series

Broadband VoIP Adaptor

Quick Installation Guide

CODE: LR8051/8052/8053

Version A

P/N: W0500942

Installation and Configuration

Package Contents

1. Broadband VoIP adapter
2. Power Adapter
3. Ethernet Cable
4. Telephone Line (8051S and 8053R only)
5. Quick Installation guide

Installation

BVA 8051 Series (8051S and 8051SL)

INTERNET: connect to a router or a device accessing the Internet. (eg. an ADSL or cable modem)

LINE: connect to a telephone line wall socket (PSTN). (8051S only)

PHONE: connect to a telephone set.

DC IN: plug in the included power adapter.

BVA 8052 Series (8052S and 8052D/DL)

LAN: connect to a router or a device accessing the Internet. (eg. an ADSL or cable modem)

Note: 8052S has one LAN port but 8052D/DL has two LAN ports functioning as an Ethernet Switch. You can use either one.

PHONE1: connect to a telephone set.(1 st phone line)

PHONE2: connect to a telephone set.(2 nd phone line)- not available in 8052DL.

DC IN: plug in the included power adapter.

BVA 8053 Series (8053R and 8053RL)

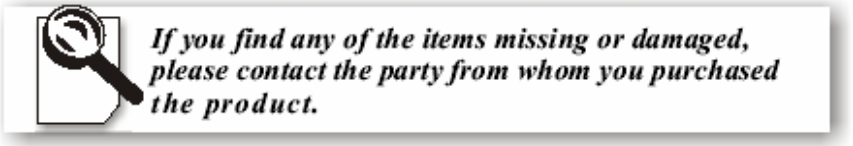
WAN: connect to a device accessing the Internet. (eg. an ADSL or cable modem)

LAN: connect to a PC's Ethernet port.

LINE: connect to a telephone line wall socket (PSTN). (8053R only)

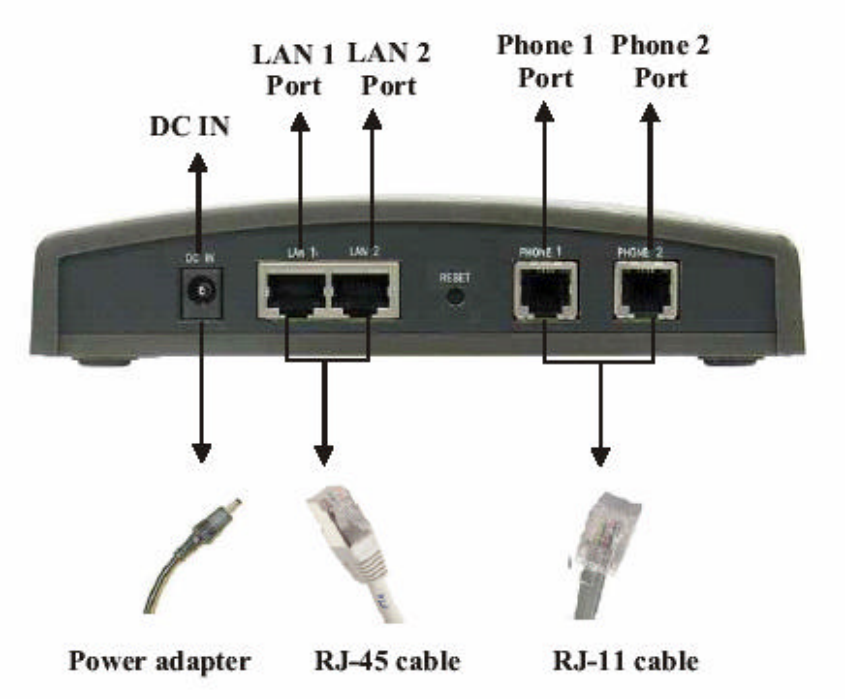
PHONE: connect to a telephone set.

DC IN: plug in the included power adapter.



Installation and Configuration

Back panel for 8052D



Installation and Configuration

Powering on the Device

Each time you turn on the device (including the very first time), you should leave it alone for at least 5 minutes. During this period, the configuration information maybe be obtained from your service provider and some critical functions like firmware updating can be performed by the device . Turning off the device during this period may cause the device to malfunction and require a factory service.

Restoring Factory Defaults

1. Unplug the power.
2. Connect the telephone to PHONE 1 PORT.
3. Lift the handset off the telephone (off-hook).
4. Use a pin to push the RESET button at the back of the device. Hold it while you plug the power back to the device. The Power LED should be flashing rapidly.
5. Continue to hold the RESET button until you see four of the six LEDs flashing several times in pairs. Release the pin and wait until all LEDs stop flashing. This whole process may take up to 10 seconds.
6. Put the handset back on the telephone (on-hook).
7. The factory defaults should have been restored.

Changing Settings Using a Browser

If this device is provided to you by your telephony service provider, it may have already been setup to work properly with their service. Changing any settings may cause the device to stop functioning. Please contact your service provider for details.

This device, in its factory default, has been configured to work with a DHCP server. To change this or to make any other modifications to the default configurations, you can use a web browser from your PC. First connect the device to a DHCP- enabled router with which your PC also shares. Identify the IP address assigned to this device by examining the router's DHCP table.

Your service provider may also provide different tools or methods, please check their web sites for further information. Use the identified IP address in the browser to access the configuration pages.

Installation and Configuration

Changing Settings Using a Telephone Set (BVA 8051 and BVA 8052 Series only)

Follow the steps in "Restoring Factory Defaults" to reset the device. In step #3, when you see the Power LED flashing rapidly, immediately release the RESET button. Your telephone handset should now be beeping. You can perform the following functions using the buttons on the keypad.

A) Set Fixed IP Address

1. Enter the IP address. Press * for .(dot) and # to terminate this entry.
   For example: 215*202*102*56# for 215.202.102.56
2. Enter the Netmask. Press # to terminate this entry.
3. Enter the Gateway IP. Press # to terminate this entry.
4. Enter the DNS server IP. Press # to terminate this entry.

On pressing the # key for each step, the pitch of the tone will drop. After entering the DNS server IP, there will be a confirmation tone. Hang up the phone to reboot.

B) Set DHCP

Enter 0#. There will be a confirmation tone. Hang up the phone to reboot.

C) Enter the Downloader mode

Enter 1#. There will be a confirmation tone. Hang up the phone to reboot. After rebooting, the device will be in the Downloader mode.

When the Application firmware is corrupted and the browser can no longer access the device, you can use this method to reset the device into the Downloader mode, connect to a browser again, and reload the Application firmware.

Installation and Configuration

Configuring the Auto Provisioning System (APS)

The Auto Provisioning System requires the support of your telephony service provider. You also need specific APS parameters. Please check with your service provider for details.

To configure the Auto Provisioning System in the device, you need to use a browser. Please see the section called "Changing Settings Using a Browser".

1. Go to the System menu. Select the APS tab.
2. Under the *Automatic Configuration* entry, select Standard.
3. Under the *APS Server Address* entry, enter the FQDN (Fully Qualified Domain Name) or the IP address of the APS server.
4. Under the *APS Port* entry, enter 69 or the number provided by your service provider.
5. Click the *Save APS Settings* button.
6. Reset the device by going to the Reset menu, select *Reset and execute Main Application*, and click the *Reset* button.

The device will reset itself, retrieve the configuration parameters from your service provider, then reset itself again. This process may take up to 5 minutes. Please see the section called "Powering on the Device".

Upgrading the firmware

New firmware may be available from your service provider from time to time. If you decide to upgrade the system yourself, please follow the steps below.

1. Download the correct version of the firmware file into your PC.
   Remember where you put it.
2. Go to the Download menu in your device. Under the *HTTP Download method*, enter the location and filename of the file you downloaded in the above step.
3. Click the *Start HTTP Download* button. This will start the upgrade process.
4. When firmware upgrade is completed, select " Restart Main Application".
5. Verify if the upgrade is successful by checking the firmware version displayed at the Home page of the device.

Installation and Configuration

Switching between IP and PSTN Calls (8051S and 8053R only)

If you have an 8051S or an 8053R and connected a telephone line (PSTN) to the LINE port, you can use the same telephone set to make either IP or PSTN calls. When you pick up the telephone handset, the default type determines whether your call will be an IP call or a PSTN call. You use a switching key to switch between the two types of call.

You can change the default type and the switching key by following the steps below.

1. Go to the SIP menu in your device. Select the PSTN tab.
2. Select *Make SIP calls by default* to make SIP calls as the default type.
3. Select *Make PSTN calls by default* to make PSTN calls as the default type.
4. Under the *Switching key* entry, select the key you want to use as the switching key.

You can only make one type of call at a time. However, your phone will ring when there is an incoming call on either the IP line or the PSTN line.

Installation and Configuration

Using the Advanced Calling Features

Advanced calling features depend on your service provider. Please contact your service provider before using.

Note: F denotes the Flash key on your telephone set. If your phone does not have a Flash key, you can simulate a flash by pressing and releasing quickly the handset hook switch.

3-way Conferencing
A calls B.
A presses F7 to get dial-tone.
A calls C.
When C answers, A-B-C are in a conference.

Call Waiting
A calls B.
C calls A. A hears call-waiting beeps.
A presses F* to alternate between C and B.

Call Hold
A calls B.
A presses F1 to put B on hold. A gets dial-tone.
A can call C to have another conversation.
A presses F* to retrieve B from hold.

Call Transfer
B calls A.
A answers, presses F4. A gets dial-tone.
A calls C. B gets transferred to C.

Call Forward
Turning on Forwarding:
A presses *2 + (phone number for C).
B calls A. B gets forwarded to C.

Turning off Forwarding:
A presses *3.

Trouble-Shooting

You can visit the web site of your service provider to locate a trouble-shooting guide or a FAQ.

LED Indicators

LED indicators

BVA8051 Series

Label	*POWER*	*LINK*	*ACTIVITY*	*LINE*	*PHONE*	*MESSAGE*
Behavior	ON:power on and IP address acquired OFF:power off SlowBlinking: Acquiring IP address	ON:LAN is connected OFF:LAN is not connected	Blinking: Network traffic on LAN	ON:PSTN line is off-hook (In use) OFF:PSTN line is on-hook Fast Blinking: Incoming call from PSTN (8051S)	ON:IP line is off-hook (In use) OFF: IP line is on hook Slow Blinking: Registering to service failed Fast Blinking: Incoming call from IP	ON:Message waiting OFF:No message waiting (Service dependent)

BVA8052 Series

Label	*POWER*	*LINK*	*ACTIVITY*	*PHONE1*	*PHONE2*	*STATUS*
Behavior	ON:power on OFF:power off	ON:LAN is connected OFF:LAN is not connected	Blinking: Network traffic on LAN	ON:IP line is off-hook (In use) OFF:IP line is on-hook Slow Blinking: Registering to service failed Fast Blinking: Incoming call from IP	ON:IP line is off-hook (In use) OFF:IP line is on-hook Slow Blinking: Registering to service failed Fast Blinking: Incoming call from IP	ON:IP address acquired Slow Blinking: Acquiring IP address

LED Indicators

BVA8053 Series

Label	*POWER*	*LAN*	*WAN*	*LINE*	*PHONE*	*STATUS*
Behavior	ON:power on OFF:power off	ON:LAN is connected OFF:LAN is not connected Blinking: Network traffic on LAN	ON:WAN is connected OFF: WAN Is not connected Blinking: Network traffic on WAN	ON:PSTN line is Off-hook (In use) OFF:PSTN line is On-hook (In use) Fast Blinking: Incoming call from PSTN (8053R)	ON:IP line is Off-hook (In use) OFF:IP line is On-hook (In use) Slow Blinking: Registering to service failed Fast Blinking: Incoming call from IP	ON:WAN IP address acquired Slow Blinking: Acquiring WAN IP address

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions,may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.
5. Shielded interface cables must be used in order to comply with emission limits. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.